ec'd PCT/PTO 2 1 MAR 2002

Docket No. 220261US0X PCT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Josef ALTENBUCHNER, et al.

SERIAL NO:

New US PCT application based on PCT/EP00/08580

GAU:

FILED:

Herewith

**EXAMINER:** 

FOR:

HYDANTOIN-RACEMASE

# INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR:

Applicant(s) wish to disclose the following information.

### REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

#### **RELATED CASES**

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

### **CERTIFICATION**

- Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

#### DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Additional References sheet(s) attached

**Date Considered** 

SHEET 1 OF 1

ATTY DOCKET NO. SERIAL NO. Form PTO 1449 U.S. DEPARTMENT OF COMMERCE New US PCT application (Modified) PATENT AND TRADEMARK OFFICE 220261US0X PCT based on PCT/EP00/08580 **APPLICANT** LIST OF REFERENCES CITED BY APPLICANT Josef ALTENBUCHNER, et al. FILING DATE **GROUP** Herewith **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT SUB **FILING DATE** DATE NAME **CLASS** INITIAL **NUMBER CLASS** IF APPROPRIATE 5 827 717 AA 10/27/98 Andreas BOMMARIUS et al. AB AC AD ΑE **FOREIGN PATENT DOCUMENTS** DOCUMENT **TRANSLATION** DATE COUNTRY NUMBER YES NO AF 00 58449 10/05/00 wo No AG OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) M. PIETZSCH et al.: "Isolation and characterization of a new, non pyridoxal -5'-phosphate dependent hydantoin racemase" DECHEMA BIOTECHNOLOGY CONFERENCES, vol. 4, pt. A, pages 259-262 AΗ 1990 A.S. BOMMARIUS et al.: "Membrane bioreactors for the production of enantiomerically pure.alpha.-aminoacids" ΑI CHIRALITY IND., pages 371-397 1992 B. WILMS et al.: "Cloning, nucleotide sequence and expression of a new I-N-carbamoylase gene from Arthrobacter aurescens DSM 3747 in E. coli" A.J JOURNAL OF BIOTECHNOLOGY, vol. 68, no. 2-3, pages 101-113 02/19/99 M. PIETZSCH et al.: "Immobilization of hydantoin cleaving enzymes from Arthrobacter aurescens DSM 3747-effect of the coupling method on the stability of the L-N-carbamoylase' PROG. BIOTECHNOL., STABILITY AND STABILIZATION OF BIOCATALYSTS, vol. 15, pages 517-522 1998 G. WOHLFAHRT et al.: "Immobilization of hydantoin cleaving enzymes" DECHEMA BIOTECHNOL. CONF., vol. 5, pt. A, pages 45-48 AL WIESE et al.: "Hydantoin racemase from Arthrobacter aurescens DSM 3747: heterologous expression, purification and characterization" AM JOURNAL OF BIOTECHNOLOGY, vol. 80, no. 3, pages 217-230

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

M. OLIVER et al.: "Inverting enantioselectivity by directed evolution of

hydantoinase for improved production of L-methionine"

NATURE BIOTECHNOLOGY, vol. 18, no. 3, pages 317/320

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Examiner